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The reason for the absence of a steel industry in China, or in Shanghai, was the inability of the industry to meet the price of foreign imports. China's total iron ore resources are not inconsiderable, but in the Yangtze basin, where most of the production attempts have been centered, the ore deposits are small and scattered so that their exploitation imposes high costs. Small deposits of coal are also found in scattered localities along the lower Yangtze, but the combined costs of mining and of transport to production centers were too high to permit economic iron or steel making.[24] In the case of Shanghai, not only did these factors operate despite its water connections with the ore and coal deposits along the Yangtze, but as a seaport it could not produce iron or steel from domestic or foreign ore at anything like the price of seaborne imports of foreign iron and steel. Fortunately its maritime connections enabled it to draw on foreign sources for iron and steel and to produce finished metal goods at a cost which still allowed them to compete in the China market with foreign imports of finished metal goods.

Among the large metal-using industries, the vehicle plants (aside from the shipyards of the Kiangnan Arsenal before 1932) imported almost all of their finished steel plates, wire, rods, tubing, and other semi-finished steel products, and most of their cast iron, directly, or indirectly as recastings from iron and steel scrap. The same was true of the plants producing machinery, with their large use of more highly-finished steel products and special steels.[25] The nine large-scale modern shipyards produced primarily river and small coastal craft, the largest ship built up to 1932 being of 11,000 net tons. The steel, production machinery, and most of the engines installed in these ships were imported, and yet it was still apparently possible for the yards to compete in the China market with European, Japanese, or American yards. In 1930 the nine yards turned out a total of 71 ships with a gross tonnage of 17,839, and an average tonnage of 240.[26] There were also about 30 smaller shipyards building Chinese-style wooden craft, from canal sampans to large coastal junks.[27]

Among the other metal-using industries, the food canning and can-producing plants in Shanghai imported all of their tin plate, primarily from the United States.[28] China has significant deposits